

What is claimed is:

1. A fluorescent display device wherein light is emitted by impinging a low speed electron beam on a phosphor layer 5 formed on an anode, wherein the phosphor layer comprises a compound containing at least one of P, K and Na.
2. A fluorescent display device wherein light is emitted by impinging a low speed electron beam on a phosphor layer 10 formed on an anode, wherein the phosphor layer comprises a compound containing at least one of P, K and Na and a compound containing W.
3. A fluorescent display device wherein light is emitted 15 by impinging a low speed electron beam on a phosphor layer formed on an anode, wherein the phosphor layer comprises a compound selected from the group consisting of K_3PO_4 , P_2O_5 and Na_2SiO_3 , the compound being added in an amount of 0.01 to 10.00 wt% to the phosphor layer.
- 20 4. A fluorescent display device wherein light is emitted by impinging a low speed electron beam on a phosphor layer formed on an anode, wherein the phosphor layer comprises a compound selected from the group consisting of K_3PO_4 , P_2O_5 and Na_2SiO_3 , the compound being added in an amount of 0.01 25 to 10.00 wt% to the phosphor layer, and another compound

containing W.

5. The device of one of claims 1 to 4, wherein the phosphor layer is a compound containing at least one selected from the group consisting of a (Zn,Mg)O system phosphor, a ZnO:Zn phosphor, Ln₂O₂S:Re (wherein Ln is La, Gd or Lu; and Re is Eu or Tb), ZnGa₂O₄ and ZnGa₂O₄:Mn.

6. A phosphor paste comprising:
10 a phosphor containing at least one selected from the group consisting of a (Zn,Mg)O system phosphor, ZnO:Zn, Ln₂O₂S:Re (wherein Ln is La, Gd or Lu; and Re is Eu or Tb), ZnGa₂O₄ and ZnGa₂O₄:Mn; and
15 a compound containing at least one selected from the group consisting of K₃PO₄, P₂O₅ and Na₂SiO₃, wherein the compound being added in an amount of 0.01 to 10.00 wt% to the phosphor.

7. A phosphor paste comprising:
20 a phosphor containing at least one selected from the group consisting of a (Zn,Mg)O system phosphor, ZnO:Zn, Ln₂O₂S:Re (wherein Ln is La, Gd or Lu; and Re is Eu or Tb), ZnGa₂O₄ and ZnGa₂O₄:Mn;
25 a compound containing at least one selected from the group consisting of K₃PO₄, P₂O₅ and Na₂SiO₃, wherein the compound being added in an amount of 0.01 to 10.00 wt% to

the phosphor; and
another compound containing W.